

Refine Search

Search Results -

Terms	Documents
L5 and mutation	19

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 IBM Technical Disclosure Bulletins

Search:

L6

Search History

DATE: Wednesday, May 26, 2004 [Printable Copy](#) [Create Case](#)

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result set

DB=USPT; PLUR=YES; OP=OR

<u>L6</u>	L5 and mutation	19	<u>L6</u>
<u>L5</u>	L4 and l3	38	<u>L5</u>
<u>L4</u>	Tsien.in.	120	<u>L4</u>
<u>L3</u>	FRET	1955	<u>L3</u>
<u>L2</u>	5998204.pn.	1	<u>L2</u>
<u>L1</u>	6197928.pn.	1	<u>L1</u>

END OF SEARCH HISTORY

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	4	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPLUS
NEWS	5	FEB 05	German (DE) application and patent publication number format changes
NEWS	6	MAR 03	MEDLINE and LMEADLINE reloaded
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 03	FRANCEPAT now available on STN
NEWS	9	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS	10	MAR 29	WPIFV now available on STN
NEWS	11	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS	12	APR 26	PROMT: New display field available
NEWS	13	APR 26	IFIPAT/IFIUDB/IFICDB: New super search and display field available
NEWS	14	APR 26	LITALERT now available on STN
NEWS	15	APR 27	NLDB: New search and display fields available
NEWS	16	May 10	PROUSDDR now available on STN
NEWS	17	May 19	PROUSDDR: One FREE connect hour, per account, in both May and June 2004
NEWS	18	May 12	EXTEND option available in structure searching
NEWS	19	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS	20	May 17	FRFULL now available on STN
NEWS EXPRESS			MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
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FILE 'HOME' ENTERED AT 12:24:51 ON 26 MAY 2004

=> file medline, biosis, wpids, uspatful
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:25:05 ON 26 MAY 2004

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FILE 'USPATFULL' ENTERED AT 12:25:05 ON 26 MAY 2004
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=> s Aequorea victoria
L1 1487 AEQUOREA VICTORIA

=> sFRET
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=> s FRET
L2 6441 FRET

=> s l1 and l2
L3 183 L1 AND L2

=> s l3 and mutation
L4 146 L3 AND MUTATION

=> s l4 and F64L
L5 44 L4 AND F64L

=> s l5 and hydrophobicity reduction
L6 0 L5 AND HYDROPHOBICITY REDUCTION

=> s l5 and donor moiety
L7 19 L5 AND DONOR MOIETY

=> d l7 ti abs ibib tot

L7 ANSWER 1 OF 19 USPATFULL on STN
TI Long wavelength engineered fluorescent proteins
AB Engineered fluorescent proteins, nucleic acids encoding them and methods
of use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:18826 USPATFULL
TITLE: Long wavelength engineered fluorescent proteins
INVENTOR(S): Wachter, Rebekka M., Creswell, OR, UNITED STATES
Remington, S. James, Eugene, OR, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004014128	A1	20040122
APPLICATION INFO.:	US 2003-620099	A1	20030714 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-575847, filed on 19 May 2000, GRANTED, Pat. No. US 6593135 Continuation-in-part of Ser. No. US 1997-974737, filed on 19 Nov 1997, GRANTED, Pat. No. US 6077707 Continuation of Ser. No.		

US 1997-911825, filed on 15 Aug 1997, GRANTED, Pat. No.
US 6054321 Continuation-in-part of Ser. No. US
1996-706408, filed on 30 Aug 1996, GRANTED, Pat. No. US
6124128

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-24050P	19960816 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Lisa A. Haile, J.D., Ph.D., GRAY CARY WARE & FREIDENRICH LLP, Suite 1100, 4365 Executive Drive, San Diego, CA, 92121-2133	
NUMBER OF CLAIMS:	187	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	62 Drawing Page(s)	
LINE COUNT:	3919	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L7 ANSWER 2 OF 19 USPATFULL on STN

TI Emission ratiometric indicators of phosphorylation
AB A chimeric phosphorylation indicator is provided. A chimeric
phosphorylation indicator can contain a donor molecule, a
phosphorylatable domain, a phosphoaminoacid binding domain (PAABD), and
an acceptor molecule. A chimeric phosphorylation indicator also can
contain a phosphorylatable polypeptide and a fluorescent protein,
wherein the phosphorylatable polypeptide is contained within the
sequence of the fluorescent protein, or wherein the fluorescent protein
is contained within the sequence of the phosphorylatable polypeptide.
Also provided are polynucleotides encoding such chimeric phosphorylation
indicators, as well as kits containing the indicators or the
polynucleotides. In addition, a method of using the chimeric
phosphorylation indicators to detect a kinase or phosphatase in a sample
is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:265214 USPATFULL
TITLE: Emission ratiometric indicators of phosphorylation
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, UNITED STATES
Ting, Alice Y., La Jolla, CA, UNITED STATES
Zhang, Jin, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003186229	A1	20031002
APPLICATION INFO.:	US 2001-865291	A1	20010524 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-396003, filed on 13 Sep 1999, ABANDONED Continuation of Ser. No. US 1997-792553, filed on 31 Jan 1997, GRANTED, Pat. No. US 5981200 Continuation-in-part of Ser. No. US 1996-594575, filed on 31 Jan 1996, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	HELLER EHRMAN WHITE & MCAULIFFE LLP, 275 MIDDLEFIELD ROAD, MENLO PARK, CA, 94025-3506		
NUMBER OF CLAIMS:	94		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	3148		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L7 ANSWER 3 OF 19 USPATFULL on STN

TI Non-oligomerizing fluorescent proteins
AB A non-oligomerizing fluorescent protein, which is derived from a

fluorescent protein having at least one **mutation** that reduces or eliminates the ability of the fluorescent protein to oligomerize, is provided. The non-oligomerizing fluorescent protein can be derived from a naturally occurring green fluorescent protein, a red fluorescent protein, or other fluorescent protein, or a fluorescent protein related thereto. Also provided is a fusion protein, which includes a non-oligomerizing fluorescent protein linked to at least one polypeptide of interest. In addition, a polynucleotide encoding a non-oligomerizing fluorescent protein is provided, as is a recombinant nucleic acid molecule, which includes polynucleotide encoding a non-oligomerizing fluorescent protein operatively linked to at least a second polynucleotide. Vectors and host cells containing such polynucleotides also are provided, as are kits containing one or more non-oligomerizing fluorescent proteins or encoding polynucleotides or constructs derived therefrom. Further provided are methods of making and using the proteins and polynucleotides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:244502 USPATFULL
 TITLE: Non-oligomerizing fluorescent proteins
 INVENTOR(S): Tsien, Roger Y., La Jolla, CA, UNITED STATES
 Zacharias, David A., San Diego, CA, UNITED STATES
 Baird, Geoffrey S., Solana Beach, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003170911	A1	20030911
APPLICATION INFO.:	US 2001-794308	A1	20010226 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614		
NUMBER OF CLAIMS:	72		
EXEMPLARY CLAIM:	1		
LINE COUNT:	3003		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 19 USPATFULL on STN

TI Optical probes and assays

AB This invention provides an optical probe useful as an optical probe or sensor of post translational type modifications, such as phosphorylation. The invention comprises a polypeptide moiety, which contains a recognition motif for a post translational type activity and a protease site, which is coupled to a probe moiety. Modification of the polypeptide, by the post translational type activity, results in a modulation of the rate at which a protease cleaves the polypeptide which is sensed by a measurable change in at least one optical property of the optical probe upon cleavage. The present invention also includes a recombinant nucleic acid molecule that encodes an optical probe and a vector and host cell or library of cells that include the recombinant nucleic acid molecule. The optical probe can be used in methods to determine whether a sample, including a cell or a sample from an organism, contains a post-translational type modification activity. Such methods can also be used to determine whether a test chemical modulates the activity of a modifying activity, and thus can be used to identify therapeutic compositions. The identification of such therapeutic compositions can be automated using a system that includes an optical probe.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:127115 USPATFULL
 TITLE: Optical probes and assays
 INVENTOR(S): Pollok, Brian A., San Diego, CA, UNITED STATES
 Hamman, Brian D., Poway, CA, UNITED STATES

Rodems, Steven M., Poway, CA, UNITED STATES
Makings, Lewis R., Encinitas, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003087328	A1	20030508
APPLICATION INFO.:	US 2002-105735	A1	20020322 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-306542, filed on 5 May 1999, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	GARY CARY WARE & FRIENDENRICH LLP, 4365 EXECUTIVE DRIVE, SUITE 1600, SAN DIEGO, CA, 92121-2189		
NUMBER OF CLAIMS:	57		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Page(s)		
LINE COUNT:	3346		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 19 USPATFULL on STN
TI Monomeric and dimeric fluorescent protein variants and methods for making same
AB The present invention relates generally to variant fluorescent proteins, and more specifically to monomeric and dimeric forms of Anthozoan fluorescent proteins. In one aspect, the present invention provides variants of fluorescent proteins, where the variants have a reduced propensity to tetramerize, and form dimeric or monomeric structures. The invention also relates to methods of making and using such fluorescent protein monomers and dimers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:86230 USPATFULL
TITLE: Monomeric and dimeric fluorescent protein variants and methods for making same
INVENTOR(S): Tsien, Roger Y., LaJolla, CA, UNITED STATES
Campbell, Robert E., San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003059835	A1	20030327
APPLICATION INFO.:	US 2002-121258	A1	20020410 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-866538, filed on 24 May 2001, PENDING Continuation-in-part of Ser. No. US 2001-794308, filed on 26 Feb 2001, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 91614		
NUMBER OF CLAIMS:	69		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	34 Drawing Page(s)		
LINE COUNT:	3394		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 19 USPATFULL on STN
TI Methods for analyzing interactions between proteins in live and intact cells
AB The present invention describes a method for detecting the interaction of at least one intracellular protein and an extracellular protein using fluorescent markers and an FRET system. The method can be used to elucidate biological pathways and to evaluate potential drug candidates of therapeutic interest.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:64726 USPATFULL
TITLE: Methods for analyzing interactions between proteins in
live and intact cells
INVENTOR(S): Pestka, Sidney, North Caldwell, NJ, UNITED STATES
Krause, Christopher D., Brick, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003044847	A1	20030306
APPLICATION INFO.:	US 2002-147335	A1	20020515 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-291119P	20010515 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	ROPES & GRAY, ONE INTERNATIONAL PLACE, BOSTON, MA, 02110-2624	
NUMBER OF CLAIMS:	49	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	13 Drawing Page(s)	
LINE COUNT:	3246	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L7 ANSWER 7 OF 19 USPATFULL on STN
TI Long wavelength engineered fluorescent proteins
AB Engineered fluorescent proteins, nucleic acids encoding them and methods
of use are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:51221 USPATFULL
TITLE: Long wavelength engineered fluorescent proteins
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, UNITED STATES
Remington, James S., Eugene, OR, UNITED STATES
Cubitt, Andrew B., San Diego, CA, UNITED STATES
Heim, Roger, Del Mar, CA, UNITED STATES
Ormo, Mats F., Huddinge, SWEDEN
PATENT ASSIGNEE(S): The Regents of the University of California (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003036178	A1	20030220
APPLICATION INFO.:	US 2002-71976	A1	20020205 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-465142, filed on 16 Dec 1999, GRANTED, Pat. No. US 6403374 Continuation of Ser. No. US 1997-974737, filed on 19 Nov 1997, GRANTED, Pat. No. US 6077707 Continuation of Ser. No. US 1997-911825, filed on 15 Aug 1997, GRANTED, Pat. No. US 6054321 Continuation-in-part of Ser. No. US 1996-706408, filed on 30 Aug 1996, GRANTED, Pat. No. US 6124128		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-24050P	19960816 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	GARY CARY WARE & FRIENDENRICH LLP, 4365 EXECUTIVE DRIVE, SUITE 1600, SAN DIEGO, CA, 92121-2189	
NUMBER OF CLAIMS:	1	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	53 Drawing Page(s)	
LINE COUNT:	2098	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 8 OF 19 USPATFULL on STN

TI Non-oligomerizing tandem fluorescent proteins
AB Non-oligomerizing fluorescent proteins, which are formed by operatively linking two or more monomers of a fluorescent protein, or which are derived from a fluorescent protein having at least one **mutation** that reduces or eliminates the ability of the fluorescent protein to oligomerize, are provided. The non-oligomerizing fluorescent proteins can be derived from a naturally occurring green fluorescent protein, a red fluorescent protein, or other fluorescent protein, or a fluorescent protein related thereto. Also provided is a fusion protein, which includes a non-oligomerizing fluorescent protein linked to at least one polypeptide of interest. In addition, a polynucleotide encoding a non-oligomerizing fluorescent protein is provided, as is a recombinant nucleic acid molecule, which includes polynucleotide encoding a non-oligomerizing fluorescent protein operatively linked to at least a second polynucleotide. Vectors and host cells containing such polynucleotides also are provided, as are kits containing one or more non-oligomerizing fluorescent proteins or encoding polynucleotides or constructs derived therefrom. Further provided are methods of making and using the proteins and polynucleotides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:44778 USPATFULL
TITLE: Non-oligomerizing tandem fluorescent proteins
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, UNITED STATES
Campbell, Robert E., San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003032088	A1	20030213
APPLICATION INFO.:	US 2001-866538	A1	20010524 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-794308, filed on 26 Feb 2001, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 620 NEWPORT CENTER DRIVE, SIXTEENTH FLOOR, NEWPORT BEACH, CA, 92660		
NUMBER OF CLAIMS:	87		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Page(s)		
LINE COUNT:	3627		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 9 OF 19 USPATFULL on STN

TI LONG WAVELENGTH ENGINEERED FLUORESCENT PROTEINS
AB Engineered fluorescent proteins, nucleic acids encoding them and methods of use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:17397 USPATFULL
TITLE: LONG WAVELENGTH ENGINEERED FLUORESCENT PROTEINS
INVENTOR(S): Wachter, Rebekka M., Creswell, OR, UNITED STATES
Remington, S. James, Eugene, OR, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003013149	A1	20030116
	US 6593135	B2	20030715
APPLICATION INFO.:	US 2000-575847	A1	20000519 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-974737, filed on 19 Nov 1997, GRANTED, Pat. No. US 6077707		
	Continuation of Ser. No. US 1997-911825, filed on 15		

Aug 1997, GRANTED, Pat. No. US 6054321 Continuation of
Ser. No. US 1996-706408, filed on 30 Aug 1996, GRANTED,
Pat. No. US 6124128

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-24050P	19960816 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Lisa A Haile Ph D, Gray Cary Ware & Freidenrich LLP, 4365 Executive Drive, Suite 1100, San Diego, CA, 92121-2133	
NUMBER OF CLAIMS:	187	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	63 Drawing Page(s)	
LINE COUNT:	3752	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L7 ANSWER 10 OF 19 USPATFULL on STN

TI Fluorescent protein sensors for detection of analytes
AB Fluorescent indicators including a binding protein moiety, a donor
fluorescent protein moiety, and an acceptor fluorescent protein moiety
are described. The binding protein moiety has an analyte-binding region
which binds an analyte and causes the indicator to change conformation
upon exposure to the analyte. The **donor moiety** and
the acceptor moiety change position relative to each other when the
analyte binds to the analyte-binding region. The **donor**
moiety and the acceptor moiety exhibit fluorescence resonance
energy transfer when the **donor moiety** is excited and
the distance between the **donor moiety** and the
acceptor moiety is small. The indicators can be used to measure analyte
concentrations in samples, such as calcium ion concentrations in cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:295314 USPATFULL
TITLE: Fluorescent protein sensors for detection of analytes
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, UNITED STATES
Miyawaki, Atsushi, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002165364	A1	20021107
APPLICATION INFO.:	US 2000-554000	A1	20000420 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-818252, filed on 14 Mar 1997, GRANTED, Pat. No. US 6197928		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	LISA A. HAILE, J.D., PH.D., GRAY CARY WARE & FREIDENRICH LLP, 4365 EXECUTIVE DRIVE, SUITE 1100, SAN DIEGO, CA, 92121-2133		
NUMBER OF CLAIMS:	37		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	17 Drawing Page(s)		
LINE COUNT:	2677		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L7 ANSWER 11 OF 19 USPATFULL on STN

TI Tandem fluorescent protein constructs
AB This invention provides tandem fluorescent protein construct including a
donor fluorescent protein moiety, an acceptor fluorescent protein moiety
and a linker moiety that couples the donor and acceptor moieties. The
donor and acceptor moieties exhibit fluorescence resonance energy
transfer which is eliminated upon cleavage. The constructs are useful in
enzymatic assays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:294631 USPATFULL
TITLE: Tandem fluorescent protein constructs
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, UNITED STATES
Heim, Roger, Del Mar, CA, UNITED STATES
Cubitt, Andrew, San Diego, CA, UNITED STATES
PATENT ASSIGNEE(S): THE REGENTS OF THE UNIVERSITY OF CALIFORNIA (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002164674	A1	20021107
APPLICATION INFO.:	US 2002-57505	A1	20020125 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-396003, filed on 13 Sep 1999, PENDING Continuation of Ser. No. US 1997-792553, filed on 31 Jan 1997, GRANTED, Pat. No. US 5981200 Continuation-in-part of Ser. No. US 1996-594575, filed on 31 Jan 1996, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Lisa A. Haile, J.D., Ph.D., GRAY CARY WARE & FREIDENRICH LLP, Suite 1100, 4365 Executive Drive, San Diego, CA, 92121-2133		
NUMBER OF CLAIMS:	57		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Page(s)		
LINE COUNT:	1845		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 12 OF 19 USPATFULL on STN

TI Optical probes and assays

AB This invention provides an optical probe useful as an optical probe or sensor of post translational type modifications, such as phosphorylation. The invention comprises a polypeptide moiety, which contains a recognition motif for a post translational type activity and a protease site, which is coupled to a probe moiety. Modification of the polypeptide, by the post translational type activity, results in a modulation of the rate at which a protease cleaves the polypeptide which is sensed by a measurable change in at least one optical property of the optical probe upon cleavage. The present invention also includes a recombinant nucleic acid molecule that encodes an optical probe and a vector and host cell or library of cells that include the recombinant nucleic acid molecule. The optical probe can be used in methods to determine whether a sample, including a cell or a sample from an organism, contains a post-translational type modification activity. Such methods can also be used to determine whether a test chemical modulates the activity of a modifying activity, and thus can be used to identify therapeutic compositions. The identification of such therapeutic compositions can be automated using a system that includes an optical probe.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:152405 USPATFULL
TITLE: Optical probes and assays
INVENTOR(S): Pollok, Brian A., San Diego, CA, United States
Hamman, Brian D., Poway, CA, United States
Rodems, Steven M., Poway, CA, United States
Makings, Lewis R., Encinitas, CA, United States
PATENT ASSIGNEE(S): Aurora Biosciences Corporation, San Diego, CA, United
States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 6410255 B1 20020625
APPLICATION INFO.: US 1999-306542 19990505 (9)
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Achutamurthy, Ponnathapu
ASSISTANT EXAMINER: Walicka, Malgorzata A.
LEGAL REPRESENTATIVE: Gray, Cary, Ware & Friedenrich LLP, Haile, Lisa A.
NUMBER OF CLAIMS: 31
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 8 Drawing Figure(s); 8 Drawing Page(s)
LINE COUNT: 3131
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 13 OF 19 USPATFULL on STN
TI Long wavelength engineered fluorescent proteins
AB Engineered fluorescent proteins, nucleic acids encoding them and methods of use are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2002:136818 USPATFULL
TITLE: Long wavelength engineered fluorescent proteins
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, United States
Remington, S. James, Eugene, OR, United States
Cubitt, Andrew B., San Diego, CA, United States
Heim, Roger, Del Mar, CA, United States
Ormo, Mats F., Huddinge, SWEDEN
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6403374	B1	20020611
APPLICATION INFO.:	US 1999-465142		19991216 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-974737, filed on 19 Nov 1997, now patented, Pat. No. US 6077707		
	Continuation of Ser. No. US 1997-911825, filed on 15 Aug 1997, now patented, Pat. No. US 6054321		
	Continuation-in-part of Ser. No. US 1996-706408, filed on 30 Aug 1996, now patented, Pat. No. US 6124128		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-24050P	19960816 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Nashed, Nashaat T.	
LEGAL REPRESENTATIVE:	Gray Cary Ware & Freidenrich LLP, Haile, Lisa A.	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	55 Drawing Figure(s); 53 Drawing Page(s)	
LINE COUNT:	2152	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L7 ANSWER 14 OF 19 USPATFULL on STN
TI Fluorescent protein sensors for detection of analytes
AB Fluorescent indicators including a binding protein moiety, a donor fluorescent protein moiety, and an acceptor fluorescent protein moiety are described. The binding protein moiety has an analyte-binding region which binds an analyte and causes the indicator to change conformation upon exposure to the analyte. The **donor moiety** and the acceptor moiety change position relative to each other when the analyte binds to the analyte-binding region. The **donor moiety** and the acceptor moiety exhibit fluorescence resonance energy transfer when the **donor moiety** is excited and

the distance between the **donor moiety** and the acceptor moiety is small. The indicators can be used to measure analyte concentrations in samples, such as calcium ion concentrations in cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:33424 USPATFULL
TITLE: Fluorescent protein sensors for detection of analytes
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, United States
Miyawaki, Atsushi, San Diego, CA, United States
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6197928	B1	20010306
APPLICATION INFO.:	US 1997-818252		19970314 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Scheiner, Laurie		
ASSISTANT EXAMINER:	Parkin, Jeffrey S.		
LEGAL REPRESENTATIVE:	Gray, Cary, Ware & Friedenrich LLP, Haile, Lisa A.		
NUMBER OF CLAIMS:	37		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 18 Drawing Page(s)		
LINE COUNT:	1803		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

pend date

L7 ANSWER 15 OF 19 USPATFULL on STN
TI Long wavelength engineered fluorescent proteins
AB Engineered fluorescent proteins, nucleic acids encoding them and methods of use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:128162 USPATFULL
TITLE: Long wavelength engineered fluorescent proteins
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, United States
Cubitt, Andrew B., San Diego, CA, United States
Heim, Roger, Del Mar, CA, United States
Ormo, Mats F., Huddinge, Sweden
Remington, S. James, Eugene, OR, United States
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)
Aurora Biosciences, La Jolla, CA, United States (U.S. corporation)
The University of Oregon, Eugene, OR, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6124128		20000926
APPLICATION INFO.:	US 1996-706408		19960830 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Achutamurthy, Ponnathapura		
ASSISTANT EXAMINER:	Nashed, Nashaat T.		
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.		
NUMBER OF CLAIMS:	37		
EXEMPLARY CLAIM:	9		
NUMBER OF DRAWINGS:	55 Drawing Figure(s); 53 Drawing Page(s)		
LINE COUNT:	1735		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 16 OF 19 USPATFULL on STN
TI Long wavelength engineered fluorescent proteins

AB This invention provides functional engineered fluorescent proteins with varied fluorescence characteristics that can be easily distinguished from currently existing green and blue fluorescent proteins. In one aspect, the invention provides nucleic acids, expression vectors and recombinant host cells comprising nucleotide sequences encoding functional engineered fluorescent proteins comprising aromatic substitutions at position 66 and a folding **mutation**. In one embodiment the invention provides for fluorescent proteins containing an aromatic substitution at Thr 203.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:77223 USPTFULL
TITLE: Long wavelength engineered fluorescent proteins
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, United States
Remington, S. James, Eugene, OR, United States
Cubitt, Andrew B., San Diego, CA, United States
Heim, Roger, Del Mar, CA, United States
Ormo, Mats F., Huddinge, Sweden
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6077707		20000620
APPLICATION INFO.:	US 1997-974737		19971119 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-911825, filed on 15 Aug 1997 which is a continuation-in-part of Ser. No. US 1996-706408, filed on 30 Aug 1996		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-24050P	19960816 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Nashed, Nashaat	
LEGAL REPRESENTATIVE:	Gray Cary Ware & Freidenrich LLP, Haile, Lisa A.	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	53 Drawing Figure(s); 53 Drawing Page(s)	
LINE COUNT:	2162	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 17 OF 19 USPTFULL on STN

TI Long wavelength engineered fluorescent proteins
AB This invention provides functional engineered fluorescent proteins with varied fluorescence characteristics that can be easily distinguished from currently existing green and blue fluorescent proteins. In one embodiment the invention provides for the three dimensional structure and atomic coordinates of an Aequorea green fluorescent protein and methods for their use. In one embodiment, this invention provides a computational method of modeling the three dimensional structure of any other fluorescent protein based on the three dimensional structure of an Aequorea green fluorescent protein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:50571 USPTFULL
TITLE: Long wavelength engineered fluorescent proteins
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, United States
Remington, S. James, Eugene, OR, United States
Cubitt, Andrew B., San Diego, CA, United States
Heim, Roger, Del Mar, CA, United States
Ormo, Mats F., Huddinge, Sweden
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6054321		20000425
APPLICATION INFO.:	US 1997-911825		19970815 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-706408, filed on 30 Aug 1996		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-24050P	19960816 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Nashed, Nashaat	
LEGAL REPRESENTATIVE:	Gray Cary Ware & Freidenrich LLP, Haile, Lisa A.	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	36 Drawing Figure(s); 53 Drawing Page(s)	
LINE COUNT:	2254	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L7 ANSWER 18 OF 19 USPATFULL on STN

TI Fluorescent protein sensors for detection of analytes

AB Fluorescent indicators including a binding protein moiety, a donor fluorescent protein moiety, and an acceptor fluorescent protein moiety are described. The binding protein moiety has an analyte-binding region which binds an analyte and causes the indicator to change conformation upon exposure to the analyte. The **donor moiety** and the acceptor moiety change position relative to each other when the analyte binds to the analyte-binding region. The **donor moiety** and the acceptor moiety exhibit fluorescence resonance energy transfer when the **donor moiety** is excited and the distance between the **donor moiety** and the acceptor moiety is small. The indicators can be used to measure analyte concentrations in samples, such as calcium ion concentrations in cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:	1999:159820 USPATFULL
TITLE:	Fluorescent protein sensors for detection of analytes
INVENTOR(S):	Tsien, Roger Y., La Jolla, CA, United States Miyawaki, Atsushi, San Diego, CA, United States
PATENT ASSIGNEE(S):	The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

had date

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5998204		19991207
APPLICATION INFO.:	US 1997-818253		19970314 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Brusca, John S.		
LEGAL REPRESENTATIVE:	Gray Cary Ware & Friedenrich LLP, Haile, Lisa A.		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	16		
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 18 Drawing Page(s)		
LINE COUNT:	2939		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L7 ANSWER 19 OF 19 USPATFULL on STN

TI Tandem fluorescent protein constructs

AB This invention provides tandem fluorescent protein construct including a donor fluorescent protein moiety, an acceptor fluorescent protein moiety and a linker moiety that couples the donor and acceptor moieties. The donor and acceptor moieties exhibit fluorescence resonance energy

transfer which is eliminated upon cleavage. The constructs are useful in enzymatic assays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:141607 USPATFULL

TITLE: Tandem fluorescent protein constructs

INVENTOR(S): Tsien, Roger Y., La Jolla, CA, United States

Heim, Roger, Del Mar, CA, United States

Cubitt, Andrew, San Diego, CA, United States

PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

Aurora Biosciences Corporation, La Jolla, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5981200		19991109
APPLICATION INFO.:	US 1997-792553		19970131 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-594575, filed on 31 Jan 1996		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Feisee, Lila		
ASSISTANT EXAMINER:	Pak, Michael		
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	1903		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.